

Eighth Annual Symposium

Research Insights in Semiarid Ecosystems RISE

**Recent research at the USDA-ARS Walnut Gulch
Experimental Watershed (WGEW) and the University of
Arizona Santa Rita Experimental Range (SRER)**

University of Arizona, Tucson, Marley Building, Rm. 230 [\[MAP\]](#)

Saturday, 29 October 2011, 8:30AM to 2:30PM

Santa Rita Experimental Range
is very rich in species

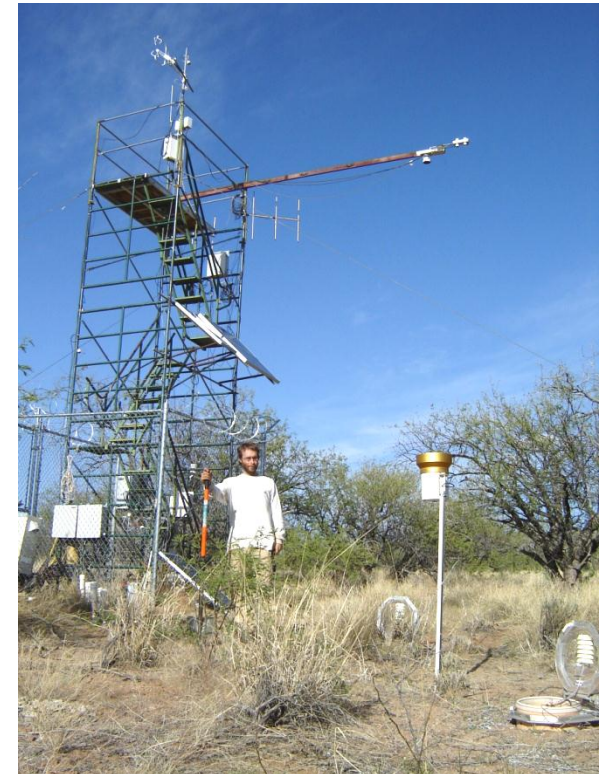
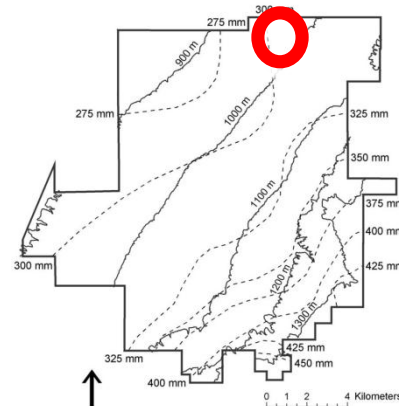


| | Santa Rita Experimental Range | Rincon Mountains | Tucson Mountains |
|-------------------------|-------------------------------------|-------------------------------|----------------------|
| # Species | 468 | 986 | 610 |
| Square Miles | 84 | 200 | 155 |
| Species/ square mile | 5.6 | 4.9 | 3.9 |
| Source | Medina 2003 | Bowers and McLaughlin 1987 | Rondeau et al. 1996. |



- *Fundamental Instrument Unit (FIU)*
- *FIU permitting process ongoing*
- *possible construction start January 2013*
- *Search for Domain Manager this summer*

| | |
|--|---|
| <p><i>Fundamental Instrument Unit (FIU)</i> Towers and Soil</p> | <p>Drivers: Temp, Humidity, Wind, PPT, Insolation, CO₂, O₃, NO_x Responses: fluxes of C, H₂O, energy</p> |
|--|---|

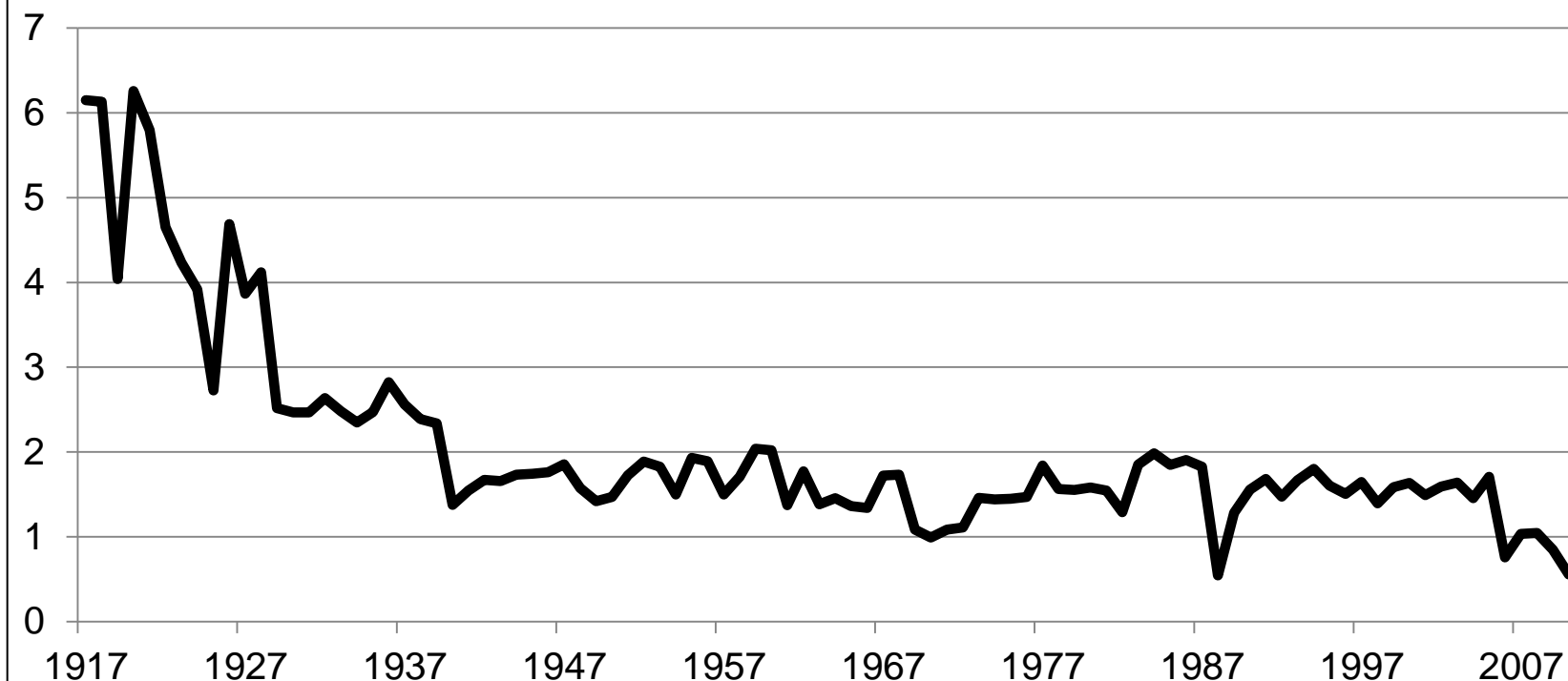


Livestock Stocking Rate Archive

Available on web site January 2012

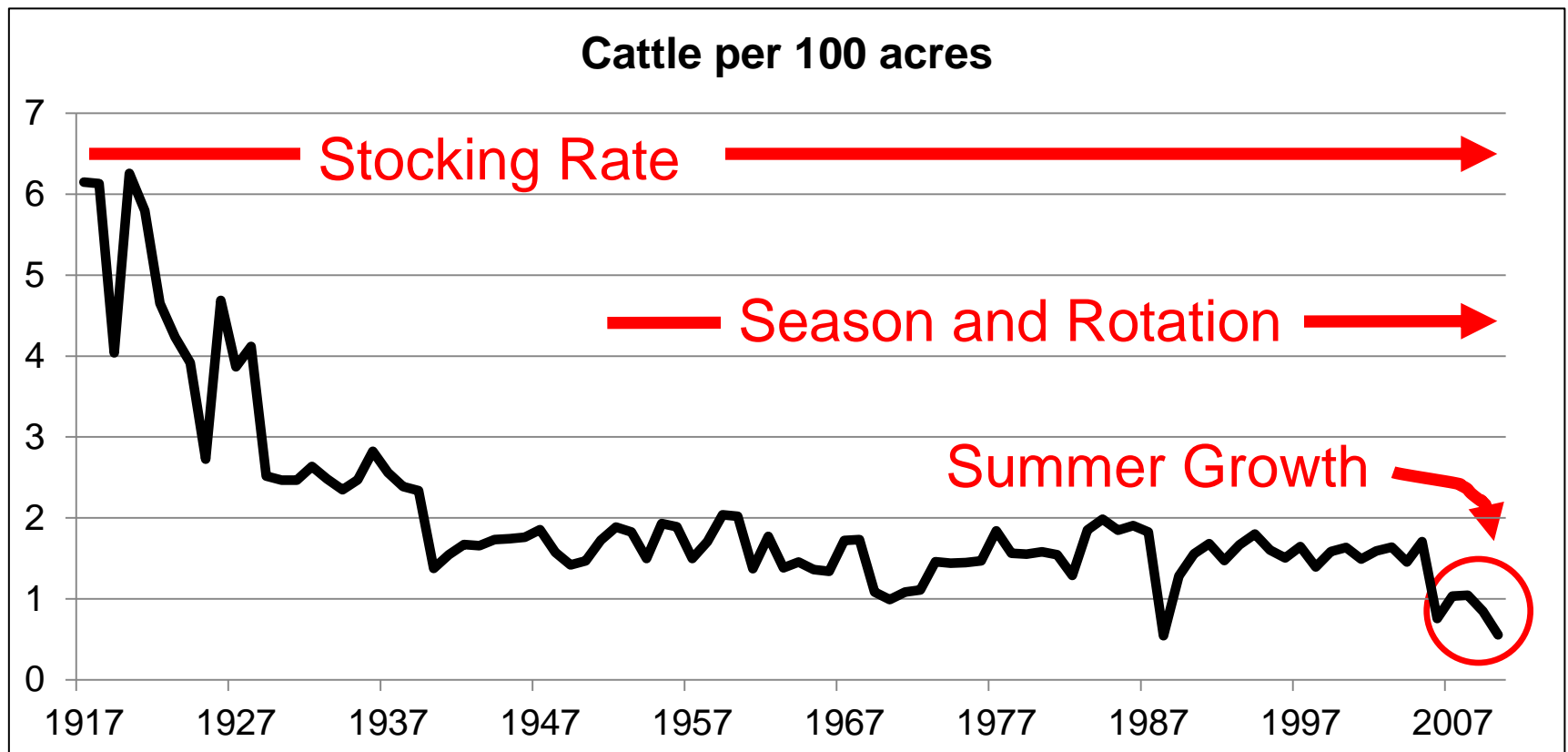


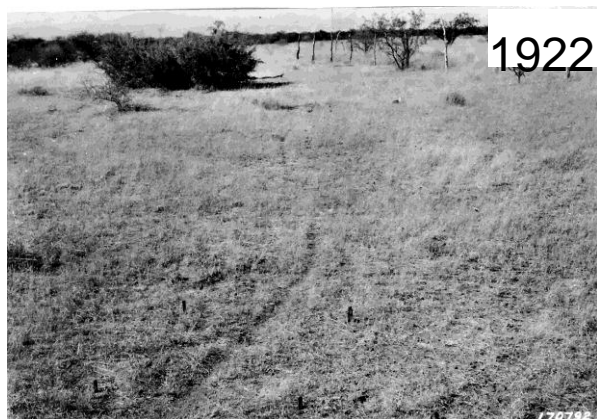
Cattle per 100 acres



Livestock Management Research

- Stocking Rate,
- Season and Rotation,
- Ensuring Summer Growth





Burroweed cycles
85 years of
burroweed and
cactus dynamics

